

5 What is claimed is:

1. A rotary fluid pressure device of the type including housing means having a fluid inlet port and a fluid outlet port; fluid pressure-operated displacement means associated with said housing means, and including
10 an internally-toothed ring member, and an externally-toothed star member eccentrically disposed within said ring member for relative orbital and rotational movement therebetween to define a plurality of expanding and contracting fluid volume chambers in response to said
15 orbital and rotational movements, and minimum and maximum volume transition chambers; a valve member cooperating with said housing mean to provide fluid communication between said inlet port and said expanding volume chambers and between said contracting volume
20 chambers and said outlet port; said valve member and said housing means cooperating to define a nominal valve overlap; said device being characterized by:
a first oil passage with relatively high pressure fluid therein surrounding the gear set,
25 a plurality of second oil passageways connecting the first oil passageway to the expanding and contracting oil chambers, and fluid non-return valves in each of the second oil passageways to permit the flow of oil therethrough
30 only in a direction from the first oil passageway to the oil chambers.
2. The device of claim 1 wherein a fluid valve means is associated with the device and connected to the chambers by third fluid passageways, and pilot operated
35 check valves are imposed in the third fluid passageways to permit fluid flow thereby only in a direction from the chambers towards the fluid valve means.